

WHAT IS CLAIMED IS:

1. A heating apparatus for heating a material to be heated, the material being inserted in a nip to be nipped and conveyed therein using heat of a rotary member, comprising:

a rotary member;

an opposing member forming a nip with respect to said rotary member;

a heating member for heating another portion other than the nip in a surface of said rotary member; and

temperature control means for controlling a temperature of the rotary member heated by said heating member,

wherein after insertion of the material to be heated in the nip starts, the temperature control means raises a temperature of said heating member or increases power supplied to said heating member before the completion of one revolution of rotary member.

2. A heating apparatus according to claim 1, wherein the temperature control means powers the temperature of said heating member or decreases the power supplied to said heating member before the material to be heated is discharged from the nip completes.

3. A heating apparatus according to claim 1,
wherein after the insertion of the material to be
heated in the nip starts, in the case that L is
assumed as a distance from the nip to the portion of
5 the rotary member surface to be heated by the heating
member along a rotating direction of said rotary
member, and V is assumed as tangential speed for
rotation of said rotary member, said temperature
control means raises the temperature of said heating
10 member or increases the power supplied to said
heating member within L/V .

4. A heating apparatus according to claim 1,
wherein said heating member heats a surface of said
15 rotary member through a film,

and wherein said temperature control means
includes temperature detecting means in contact with
a film surface opposite to another film surface
contacting said rotary member in a portion in which
20 the film contacts the surface of said rotary member.

5. A heating apparatus according to claim 4,
wherein said temperature detecting means is disposed
in the portion in which the film contacts the surface
25 of said rotary member on an upstream side in a
rotating direction of said rotary member.

6. A heating apparatus according to claim 4,
wherein the temperature detecting means is disposed
in the portion in which the film contacts the rotary
member surface on a downstream side in the rotating
5 direction of said rotary member.

7. A heating apparatus according to claim 1,
wherein the heating member includes a ceramic heater
as a heating source,
10 and wherein the temperature control means
includes temperature detecting means is disposed to a
back surface of the ceramic heater.

8. A heating apparatus according to claim 1,
15 wherein the opposing member is a rotary member.

9. A heating apparatus according to claim 1,
wherein said heating material is a recording material
bearing an image.
20

10. An image forming apparatus, comprising:
an image forming device for forming an unfixed
toner image on a recording material so as to be borne
thereon; and
25 a fixing apparatus including a heating
apparatus according to claim 1.

11. An image forming apparatus, comprising:
an image forming part for forming an unfixed
toner image on a recording material so as to be borne
thereon; and

5 a fixing part for heat-fixing the unfixed toner
image on the recording material to the recording
material,

wherein said fixing part includes a first
rotary member and a second rotary member that are in
10 contact with each other to form a nip and a heating
member for heating the first rotary member in a
position different from the nip, and fixes an image
formed on a material to be heated using heat of the
first rotary member by inserting the material to be
15 heated in the nip,

wherein the image forming apparatus further
comprises a power control part for controlling power
to be supplied to the heating member so as to
increase an amount of heat supplied to the first
20 rotary member substantially at timing when a position
of the member to be heated reaches a portion of the
first rotary member to be contacted with a leading
edge of the heating material in the nip.

25 12. An image forming apparatus according to
claim 11, further comprising temperature detecting
means for detecting temperature of a rotary member,

wherein the power control part controls power to be supplied to the heating member based on detection temperature for the temperature detecting means and target temperature.

5

13. An image forming apparatus according to claim 12, wherein substantially at the timing when the position of the heating member reaches the portion of the first rotary member to be contacted with the leading edge of the heating material in the nip, the power control part performs one of switching the target temperature and switching correlation of the detection temperature for the temperature detecting means and the target temperature with the power to be supplied to the heating member, thereby increasing the amount of heat supplied to the first rotary member.

14. An image forming apparatus according to claim 11, wherein substantially at timing when the position of the heating member reaches a portion of the first rotary member to be contacted with a trailing edge of the heating material in the nip, the power control part controls the power to be supplied to the heating member so as to decrease the amount of heat supplied to the first rotary member.

15. An image forming apparatus according to
claim 14, further comprising temperature detecting
means for detecting temperature of a rotary member,
wherein the power control part controls power
5 to be supplied to the heating member based on
detection temperature for the temperature detecting
means and target temperature, and substantially at
the timing when the position of the heating member
reaches by the portion of the first rotary member to
10 be contacted with the trailing edge of the heating
material in the nip, performs one of switching the
target temperature and switching correlation of the
detection temperature for the temperature detecting
means and the target temperature with the power to be
15 supplied to the heating member, thereby decreasing
the amount of heat supplied to the first rotary
member.

16. An image forming apparatus according to
20 claim 11,

wherein the heating member heats a surface of
the first rotary member through a film,

wherein the temperature detecting means
contacts a film surface opposite to a film surface
25 contacting the first rotary member in a portion in
which the film contacts the surface of the first
rotary member.

17. An image forming apparatus according to
claim 16, wherein the temperature detecting means is
disposed in the portion in which the film contacts
the surface of the first rotary member on an upstream
5 side in a rotating direction said rotary member.

18. An image forming apparatus according to
claim 16, wherein the temperature detecting means is
disposed in the portion in which the film contacts
10 the surface of the first rotary member on a
downstream side in the rotating direction the rotary
member.

19. An image forming apparatus according to
15 claim 11, wherein the heating member includes a
ceramic heater as a heating source,

and wherein the ceramic heater has the
temperature detecting means disposed at a back
surface of the ceramic heater.

20

20. An image forming apparatus according to
claim 11, wherein the heating material is a recording
material bearing an image.

25